

Claims Listing

Claim 1, 3 (cancelled)

Claim 23 (new): A method of using polyethylene oxide polymer as a anti-piling agent, dissolved in an essentially aqueous fountain solution, at an effective concentration of about 5 ppm to about 500 ppm, said polyethylene oxide polymers having molecular weight from about 200,000 to about 7,000,000, useful for either acid or neutral fountain solutions.

Claim 4 (cancelled)

Claim 24 (new): The method of using polyethylene oxide as a anti-piling agent as described in Claim 23 useful in an acid fountain solution with a pH range of about 3.2 to about 4.8.

Claim 5 (cancelled)

Claim 25 (new): The method of using polyethylene oxide as an anti-piling agent as described in Claim 23 useful in a neutral fountain solution with a pH range of about 6.5 to about 7.5.

Claim 6 (cancelled)

Claim 26 (new): A method of using polyethylene oxide polymer as described in Claim 23 as an acid fountain solution consisting of:

- a. A fountain solution with a pH of about 3.2 to about 4.8,
- b. Polyethylene oxide with a molecular weight of about 200,000 to about 7,000,000 at an effective concentration of about 5ppm to about 500ppm,
- c. A desensitizing water-soluble polymer with an effective concentration of about 0.5 wt. % to about 10 wt. %,

- d. An inorganic and/or organic salt/acid buffering system with an effective concentration of about 0.2 wt. % to about 2.5 wt. %,
- e. Water-soluble solvents, like glycols, glycol ethers, glycol esters or other hydroxylic solvents in amounts of about 1.5 wt. % to about 10.0 wt. %,
- f. Nonionic and/or anionic surfactant(s) with a HLB of about 2 to about 10 being present in the amount of about 0.5 wt. % to about 4.50 wt. %,
- g. Optionally, a chelating agent being present in the amount of about 0.1 wt. % to about 1.5 wt. %,
- h. Optionally, a biocide being present in the amount of about 0.1 wt. % to about 1.25 wt. %,
- i. I optionally, a hydrotrope being present in the amount of about 1.0. wt. % to about 5.0 wt. %,
- j. Optionally, a corrosion inhibitor.

Claim 7 (cancelled)

Claim 27 (new): A method of using polyethylene oxide polymer as described in Claim 23 in a neutral fountain solution consisting of:

- a. a fountain solution with a pH in the range of about 6.5 to about 7.5,
- b. polyethylene oxide with a molecular weight between 200,000 and 7,000,000 at an effective concentration of about 5 ppm to about 500 ppm,
- c. an inorganic and/or organic buffering system with an effective concentration of about 0.2 wt. % to about 2.5 wt. %,
- d. water-soluble solvent(s) like glycols, glycol ethers, glycol esters or other hydroxylic solvents in amounts of about 1.5 wt. % to about 10.0 wt. %,
- e. nonionic and/or anionic surfactants(s) with a HLB of about 2 to about 10 being 10 being present in the amount of about 0.5 wt. % to about 4.5 wt. %,

- f. optionally, a desensitizing water-soluble polymer with an effective concentration of about 0.5 wt. % about 10 wt. %,
- g. optionally, a chelating agent being present in the amount of about 0.1 wt % to about 1.5 wt. %,
- h. optionally, a biocide being present in the amount of about 0.1 wt. % to about 1.25 wt. %,
- i. optionally, a hydrotrope being present in the amount of about 1.0 wt. % ot about 5.0 wt. %,
- j. optionally, a corrosion inhibitor.

Claim 8 - 22 (cancelled)